## NOVA is the Place for CS!

Communicating with computers has become an integral part of our lives. The Computer Science (CS) A.S. degree gives you the basic knowledge and skills to understand the structure and process of computers and also sets you up for a successful transfer to a four-year college to pursue a CS Bachelor's degree.

## The CS Program

Offers a solid foundation into the science of computing as well as providing valuable insight in determining your area of focus and next steps. With courses like Computer Systems, Problem Solving and Programming, or Data Structures and Analysis of Algorithms, you'll gain the knowledge and exposure to guide your future.

## Prepare for the Future

CS professionals are in high demand and essential to just about every modern business model. If a company relies on or produces computer technology, chances are there's an CS professional behind it all. NOVA has a growing list of four-year colleges accepting our CS A.S. degree for transfer. Build your world in CS at NOVA today.

## A quick guide for students choosing between Computer Science or Information Technology (IT):

Computer Science is about creating - preferable for students who like math, algorithms, and abstraction layers.
IT is about implementation - good for students who enjoy more hands-on problem-solving directly with systems.

## A.S. Degree Courses <br> (Associate of Science)

Semester 1 Credits: 15
CSC ..... 221
Introduction to Problem Solving and Programming ..... 3
HIS Elective ..... 3
MTH 167 PreCalculus with Trigonometry (2) (3) ..... 5
ENG 111 College Composition I ..... 3
SDV 100 College Success Skills - OR -
SDV 101 Orientation to (a Specific Discipline) ..... 1
Semester 2Credits: 14
CSC 222 Object Oriented Programming ..... 4
ENG 112 College Composition II ..... 3
MTH 263 Calculus I ..... 4
Humanities/Fine Arts Elective (4) ..... 3
Semester 3Credits: 15
CSC ..... 223
Data Structures and Analysis of Algorithms ..... 4
CSC ..... 208
Introduction to Discrete Structures - OR - Discrete Mathematics ..... 3
MTH ..... 264
Calculus II (5 ..... 4
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Physical or Life Science Elective w/ Lab ..... 4
Semester 4Credits: 16-18
CSC 205 Computer Organization - OR -
CSC 215 Computer Systems - OR -
MTH ..... 265
Calculus III ..... 3/4 ..... 3
Humanities/Fine Arts Elective (4)
Humanities/Fine Arts Elective (4) - Physical or Life Science Elective w/Lab ..... 4
Social/Behavioral Sciences Elective (8) ..... 3
Approved Elective ..... $3 / 4$
Total Credits: 60-62

[^0](9) Approved elective courses: PHY 201, CSC 205, CSC 215, EGR 121, EGR 122, EGR 270, CST 100, CST 110, MTH 265, MTH 266, or MTH 283. Any science listed on footnote \#6 and \#7.

For More Info about NOVA's


[^0]:    (1) Select any HIS course listed under the social/behavioral science courses in General Education Electives.
    (2) If precalculus is needed, begin with MTH 167 (or MTH 161 and MTH 162 ). If placed out of precalculus, begin with MTH 263 and replace the precalculus credits with two electives from footnote \#3 that total five credits or more.
    (3) May choose from the following list: CSC 205 , CSC 208, CSC 215 , MTH 265, MTH 266 , MTH 288 , PHY 201 or any science listed on footnote \#6 and \#7. Students should consult a faculty advisor and their transfer institution to select appropriate courses.
    (4) See humanities/fine arts courses listed under General Education Electives.
    (5) MTH 245 may be used for this requirement if the student's transfer institution requires it.
    (6) Physical and life science elective must be selected from the following: $\mathbf{B I O} 101$, CHM 111, PHY $241, G O L$ L 105 , or GOL 106 .
    (7) Physical and life science elective must be selected from the following: B10 102, CHM I12, PHY 242, GOL 105 , or GOL 106 .
    (8) See social/behavioral science courses listed under General Education Electives.

